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## We claim:

- A substantially purified nucleic acid molecule that encodes a cotton protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 24076.
- 2. A substantially purified cotton protein or fragment thereof, wherein said cotton protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 24076.
  - 3. A transformed plant having a nucleic acid molecule which comprises:
    - (a) an exogenous promoter region which functions in a plant cell to cause the production of a mRNA molecule;
    - a structural nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 24076 or complements thereof;
    - (c) a 3' non-translated sequence that functions in said plant cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.
  - 4. The transformed plant according to claim 3, wherein said structural nucleic acid molecule is a complement of any of the nucleic acid sequences of SEQ ID NO: 1 through SEQ ID NO: 24076.
- 5. The transformed plant according to claim 4, wherein said plant is cotton, soybean, maize or wheat.
  - 6. The transformed plant according to claim 4, wherein said plant is maize.
  - 7. The transformed plant according to claim 4, wherein said plant is soybean.

- 8. The transformed plant according to claim 4, wherein said plant is cotton.
- 9. The transformed plant according to claim 4, wherein said plant is wheat.